

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/011174

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ G02F1/17

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ G02F1/167-1/17, G09F9/30-9/37

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1922-1996	Toroku Jitsuyo Shinan Koho	1994-2004
Kokai Jitsuyo Shinan Koho	1971-2004	Jitsuyo Shinan Toroku Koho	1996-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X Y	JP 2003-186425 A (Fuji Xerox Co., Ltd.), 04 July, 2003 (04.07.03), Par. Nos. [0009] to [0018], [0064]; Figs. 8, 9, 12 (Family: none)	1-3, 6 4, 5
X Y	JP 2003-208107 A (Fuji Xerox Co., Ltd.), 25 July, 2003 (25.07.03), Par. Nos. [0045] to [0076]; Fig. 8 (Family: none)	1, 3, 6 4, 5
X Y	JP 2-284128 A (Nippon Mektron, Ltd.), 21 November, 1990 (21.11.90), Page 2, upper right column, lines 11 to 16; Figs. 4, 2 (Family: none)	1-3, 6 4, 5

☒ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance
 "E" earlier application or patent but published on or after the international filing date
 "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
 "O" document referring to an oral disclosure, use, exhibition or other means
 "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search
02 November, 2004 (02.11.04)

Date of mailing of the international search report
25 January, 2005 (25.01.05)

Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 2002-196376 A (Fuji Xerox Co., Ltd.), 12 July, 2002 (12.07.02), Par. No. [0044]; Fig. 2 (Family: none)	4, 5
Y	JP 2002-229074 A (Canon Inc.), 14 August, 2002 (14.08.02), Par. No. [0044] & US 2002/0067333 A1 Par. No. [0091]	4, 5
Y	JP 2003-202600 A (Bridgestone Corp.), 18 July, 2003 (18.07.03), Par. No. [0017]; Fig. 4 & WO 03/027763 A1 Page 49, lines 4 to 16; Fig. 13	3
E, X	JP 2004-286861 A (Canon Inc.), 14 October, 2004 (14.10.04), Par. No. [0012]; Fig. 4 (Family: none)	1-3, 6
E, X	JP 2004-333893 A (Canon Inc.), 25 November, 2004 (25.11.04), Par. No. [0056]; Fig. 9 (Family: none)	1-3, 6
E, X	JP 2004-347810 A (Canon Inc.), 09 December, 2004 (09.12.04), Par. No. [0030]; Fig. 4 (Family: none)	1-3, 6
E, X	JP 2004-272199 A (Fuji Xerox Co., Ltd.), 30 September, 2004 (30.09.04), Par. Nos. [0070] to [0112]; Figs. 1 to 16 (Family: none)	1, 3-6
P, X	JP 2004-101890 A (Canon Inc.), 02 April, 2004 (02.04.04), Claim 11; Fig. 2 (Family: none)	1-3, 6

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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

The inventions of claims 1-6 relate to an image display device having image display media enclosed in the cells isolated one from another by walls wherein an electric field is applied to the image display media and the image display media are moved so that cells of the image display panel displaying an image do not correspond to the pixel positions for displaying the image by 1 : 1.

The inventions of claims 7-12 relate to a method for manufacturing colored walls of the image display panel having a structure that image display media are enclosed in the cells isolated from one another by walls.

(Continued to extra sheet)

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1-6

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

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Continuation of Box No.III of continuation of first sheet (2)

The inventions of claims 13-22 relate to an image display device in which image display media are enclosed in the cells isolated from one another by walls, an electric field is applied to the image display media, the wall of the image display panel displaying the image by moving the image display media has a tapered shape.

A. 発明の属する分野の分類 (国際特許分類 (IPC))

Int. Cl⁷ G02F1/17

B. 調査を行った分野

調査を行った最小限資料 (国際特許分類 (IPC))

Int. Cl⁷ G02F1/167-1/17, G09F9/30-9/37

最小限資料以外の資料で調査を行った分野に含まれるもの

日本国実用新案公報	1922-1996年
日本国公開実用新案公報	1971-2004年
日本国登録実用新案公報	1994-2004年
日本国実用新案登録公報	1996-2004年

国際調査で使用した電子データベース (データベースの名称、調査に使用した用語)

C. 関連すると認められる文献

引用文献の カテゴリー*	引用文献名 及び一部の箇所が関連するときは、その関連する箇所の表示	関連する 請求の範囲の番号
X Y	JP 2003-186425 A (富士ゼロックス株式会社) 2 003.07.04, 段落【0009】-【0018】、【006 4】、図8, 9, 12 (ファミリーなし)	1-3, 6 4, 5
X Y	JP 2003-208107 A (富士ゼロックス株式会社) 2 003.07.25, 段落【0045】-【0076】、図8 (ファミリーなし)	1, 3, 6 4, 5

☒ C欄の続きにも文献が列挙されている。☐ パテントファミリーに関する別紙を参照。

* 引用文献のカテゴリー

「A」 特に関連のある文献ではなく、一般的技術水準を示すもの
「E」 国際出願日前の出願または特許であるが、国際出願日以後に公表されたもの
「L」 優先権主張に疑義を提起する文献又は他の文献の発行日若しくは他の特別な理由を確立するために引用する文献 (理由を付す)
「O」 口頭による開示、使用、展示等に言及する文献
「P」 国際出願日前で、かつ優先権の主張の基礎となる出願

の日の後に公表された文献
「T」 国際出願日又は優先日後に公表された文献であって出願と矛盾するものではなく、発明の原理又は理論の理解のために引用するもの
「X」 特に関連のある文献であって、当該文献のみで発明の新規性又は進歩性がないと考えられるもの
「Y」 特に関連のある文献であって、当該文献と他の1以上の文献との、当業者にとって自明である組合せによって進歩性がないと考えられるもの
「&」 同一パテントファミリー文献

国際調査を完了した日

02.11.2004

国際調査報告の発送日

25.1.2005

国際調査機関の名称及びあて先

日本国特許庁 (ISA/JP)
郵便番号100-8915
東京都千代田区霞が関三丁目4番3号

特許庁審査官 (権限のある職員)
河原 正

2X

9017

電話番号 03-3581-1101 内線 3293

C (続き) . 関連すると認められる文献

引用文献の カテゴリー*	引用文献名 及び一部の箇所が関連するときは、その関連する箇所の表示	関連する 請求の範囲の番号
X Y	J P 2-284128 A (日本メクトロン株式会社) 199 0. 11. 21, 2頁右上欄第11-16行, 図4, 図2 (ファミリーなし)	1-3, 6 4, 5
Y	J P 2002-196376 A (富士ゼロックス株式会社) 2 002. 07. 12, 段落【0044】, 図2 (ファミリーなし)	4, 5
Y	J P 2002-229074 A (キャノン株式会社) 200 2. 08. 14, 段落【0044】 & US 2002/0067333 A1, 段落[0091]	4, 5
Y	J P 2003-202600 A (株式会社ブリヂストン) 20 03. 07. 18, 段落【0017】, 図4 & WO 03/027763 A1, 第49頁第4-16行, 図 13	3
E, X	J P 2004-286861 A (キャノン株式会社) 200 4. 10. 14, 段落【0012】, 図4 (ファミリーなし)	1-3, 6
E, X	J P 2004-333893 A (キャノン株式会社) 200 4. 11. 25, 段落【0056】, 図9 (ファミリーなし)	1-3, 6
E, X	J P 2004-347810 A (キャノン株式会社) 200 4. 12. 09, 段落【0030】, 図4 (ファミリーなし)	1-3, 6
E, X	J P 2004-272199 A (富士ゼロックス株式会社) 2 004. 09. 30, 段落【0070】-【0112】, 図1-1 6 (ファミリーなし)	1, 3-6
P, X	J P 2004-101890 A (キャノン株式会社) 200 4. 04. 02, 請求項11, 図2 (ファミリーなし)	1-3, 6